

WHAT IS CLAIMED IS:

1. An information exchange method of exchanging information between a communication terminal having a short distance wireless communication device and a host
5 having another short distance wireless communication device and an information acquisition device, the method comprising:

acquiring identification information identifying the communication terminal by the information
10 acquisition device;

establishing a short distance wireless communication path between the communication terminal and the host in reference to the identification information; and

15 initiating an information exchange between the communication terminal and the host based on a communication between the short distance wireless communication devices using the established short distance wireless communication path.

20 2. The method according to claim 1, wherein said acquiring includes reading a bar code on said communication terminal, the bar code indicating said identification information.

25 3. The method according to claim 2, wherein said bar code is printed or attached on the communication terminal.

4. The method according to claim 2, wherein

said bar code is electrically displayed on the communication terminal.

5 5. The method according to claim 1, wherein
said acquiring includes receiving said
identification information from said communication
terminal to said host via an IrDA communication.

10 6. The method according to claim 1, wherein
said acquiring includes receiving said
identification information transmitted from a wireless-
tag disposed in said communication terminal.

15 7. The method according to claim 1, wherein
said acquiring includes:
 detecting an image displayed on said
communication terminal; and
 processing the image thereby creating said
identification information.

20 8. The method according to claim 1, wherein
said acquiring includes:
 referring to a predetermined conversion table
wherein said identification information acquired by
said acquisition device is used, and acquiring a
reference result; and

 converting the reference result to a second
identification information.

25 9. The method according to claim 1, wherein
said acquiring includes calculating a second
identification information in accordance with a

predetermined calculation procedure wherein said identification information acquired by said acquisition device is used.

10. The method according to claim 1, wherein
5 said short distance wireless communication includes a Bluetooth.

11. A cash register apparatus configured to exchange information with communication terminals each of which equips a short distance wireless communication
10 device and provide predetermined services to users who carry the communication terminals, the apparatus comprising:

 a register mechanism;
 a first bar code reader configured to read a bar
15 code of a product;
 a register controller configured to control the register mechanism to perform a register processing in respect to the bar code of the product;
 a short distance wireless communication device;
20 a second bar code reader configured to read a bar code of the communication terminal; and
 an information exchange device configured to:
 generate identification information based on the bar code of the communication terminal, which
25 identifies one of the communication terminal among others and
 control the short distance wireless communication

device so as to:

establish a short distance wireless
communication path with the communication terminal; and

initiate an information exchange with the
5 communication terminal based on a communication between
the short distance wireless communication devices using
the established short distance wireless communication
path.

12. A cash register apparatus configured to
10 exchange information with communication terminals each
of which equips a short distance wireless communication
device and a wireless tag transmitting a signal, and
provide predetermined services to users who carry the
communication terminals, the apparatus comprising:

15 a register mechanism;
a bar code reader configured to read a bar code of
a product;

a register controller configured to control the
register mechanism to perform a register processing in
20 respect to the bar code of the product;

a short distance wireless communication device;

a wireless tag receiver configured to receive the
signal transmitted from the wireless tag of one of the
communication terminals; and

25 an information exchange device configured to:

generate identification information based on the
signal, which identifies one of the communication

terminal among others; and

control the short distance wireless communication device so as to:

5 establish a short distance wireless communication path with the communication terminal; and
 initiate an information exchange with the communication terminal based on a communication between the short distance wireless communication devices using the established short distance wireless communication
10 path.

13. A cash register apparatus configured to exchange information with communication terminals each of which equips a short distance wireless communication device and an infrared data communication device
15 transmitting a signal, and provide predetermined services to users who carry the communication terminals, the apparatus comprising:

 a register mechanism;
 a bar code reader configured to read a bar code of
20 a product;

 a register controller configured to control the register mechanism to perform a register processing in respect to the bar code of the product;

 a short distance wireless communication device;
25 a infrared data communication device configured to receive the signal transmitted from one of the communication terminals; and

an information exchange device configured to:
generate identification information based on the
signal, which identifies one of the communication
terminal among others; and

5 control the short distance wireless communication
device so as to:

 establish a short distance wireless
communication path with the communication terminal; and

 initiate an information exchange with the
10 communication terminal based on a communication between
the short distance wireless communication devices using
the established short distance wireless communication
path.

14. A cash register apparatus configured to
15 exchange information with communication terminals each
of which equips a short distance wireless communication
device, and provide predetermined services to users who
carry the communication terminals, the apparatus
comprising:

20 a register mechanism;

 a bar code reader configured to read a bar code of
a product;

 a register controller configured to control the
register mechanism to perform a register processing in
25 respect to the bar code of the product;

 a short distance wireless communication device;

 an imaging device configured to acquire

a predetermined image of one of the communication terminals; and

an information exchange device configured to:

process the acquired image and generate
5 identification information, which identifies one of the communication terminal among others; and

control the short distance wireless communication device so as to:

establish a short distance wireless
10 communication path with the communication terminal; and

initiate an information exchange with the communication terminal based on a communication between the short distance wireless communication devices using the established short distance wireless communication
15 path.